INDEX TO AUTHORS.

A

Alles, Gordon A. See CONANT, ALLES, and TONGBERG, 89

B

Ball, Charles D., Jr. See HUSTON, LIGHTBODY, and BALL, 507

Ball, Eric G. See WILSON and BALL, 221

Barron, E. S. Guzman, and **Harrop, George A., Jr.** Studies on blood cell metabolism. II. The effect of methylene blue and other dyes upon the glycolysis and lactic acid formation of mammalian and avian erythrocytes, 65

—. See PERLZWEIG and BARRON, 19

Barwasser, Norbert. See KAHLENBERG and BARWASSER, 405

Bennett, Helen B. See SHOHL, BENNETT, and WEED, 257

Bing, Franklin C. See SHOHL and BING, 269

Bischoff, Fritz, and **Maxwell, L. C.** The precipitation of blood calcium by lead, 5

Blanco, J. G. Sugar metabolism. Lactose, galactose, and xylose, 667

—. See LEVENE and BLANCO, 657

Blanco, J. G. See RAYMOND and BLANCO, 649

Blatherwick, N. R. See SAHYUN and BLATHERWICK, 443

Bodansky, Meyer. The hemolytic action of inorganic acids, 229

—. Lipoid solubility, permeability and hemolytic action of the saturated fatty acids, 241

Breedlove, C. H. See HELLER, BREEDLOVE, and LIKELY, 275

C

Conant, James B., Alles, Gordon A., and **Tongberg, C. O.** The electrometric titration of hemin and hematin, 89

Cori, Carl F., and **Cori, Gerty T.** The mechanism of epinephrine action. I. The influence of epinephrine on the carbohydrate metabolism of fasting rats, with a note on new formation of carbohydrates, 309

— and —. II. The influence of epinephrine and insulin on the carbohydrate metabolism of rats in the postabsorptive state, 321

— and —. III. The influence of epinephrine on the utilization of absorbed glucose, 343

XUM

Cori, Gerty T. See CORI and CORI, 309, 321, 343

D

Davenport, H. A., Davenport, Helen K., and **Ranson, S. W.** Chemical studies of muscle contracture. I. The lactic acid content, 499

—. See SACKS and DAVENPORT, 493

Davenport, Helen K. See DAVENPORT, DAVENPORT, and RANSON, 499

Doisy, Edward A. See THAYER, JORDAN, and DOISY, 53

E

Elden, C. A., Sperry, Warren M., Robscheit-Robbins, Frieda S., and **Whipple, G. H.** Blood regeneration in severe anemia. XIII. Influence of certain copper salts upon hemoglobin output, 577

—. See ROBSCHEIT-ROBBINS, ELDEN, SPERRY, and WHIPPLE, 563

F

Flexner, Louis B. See MICHAELIS and FLEXNER, 689

Franke, Kurt W. See NORD and FRANKE, 27

G

Greenberg, David M. The electrical transference of calcium in blood serum protein solutions, 177

Gustus, Edwin L. See JACOBS and GUSTUS, 539, 553

H

Haller, H. L. See LEVENE and HALLER, 475

Hanke, Milton T. Determination of the tyrosine content of proteins, 587

Harrop, George A., Jr. See BARRON and HARROP, 65

Hastings, A. Baird, Sendroy, Julius, Jr., McIntosh, John F., and **Van Slyke, Donald D.** Studies of gas and electrolyte equilibria in blood. XIII. The distribution of chloride and bicarbonate in the blood of normal and pathological human subjects, 193

—, —, and **Van Slyke, Donald D.** Studies of gas and electrolyte equilibria in blood. XII. The value of pK′ in the Henderson-Hasselbalch equation for blood serum, 183

—. See VAN SLYKE, HASTINGS, HILLER, and SENDROY, 769

Hawkins, James A. See VAN SLYKE and HAWKINS, 739

Heller, V. G., Breedlove, C. H., and **Likely, W.** A comparison of the Bergeim and standard methods of determining coefficients of utilization with suggested modifications, 275

Hendrix, Byron M., and **Wilson, Velma.** A comparison of the titration curves of coagulated and uncoagulated egg albumin, 389

Hiller, Alma. See VAN SLYKE, HASTINGS, HILLER, and SENDROY, 769

Hoffmann, Alexander. See JACOBS and HOFFMANN, 519, 531
Holloway, Rachel G. See SUMNER and HOLLOWAY, 489
Hudson, C. S. See LA FORGE and HUDSON, 1
Hunt, Charles H. Further evidence of the complex nature of vitamin B. I. Evidence that a third factor exists, 723
— and **Krauss, W. E.** The relative antineuritic and antipellagric potency of cow's milk, 733
Huston, Ralph C., Lightbody, Howard D., and Ball, Charles D., Jr. Some biochemical relations of phenols. II. The effect of hydroquinone on the vitamin A content of stored oils, 507

J

Jacobs, Walter A., and Gustus, Edwin L. The digitalis glucosides. II. Gitoxigenin and isogitoxigenin, 553
— and —. Strophanthin. XVI. Degradation in the isostrophanthidin series, 539
— and **Hoffmann, Alexander.** Periplocymarin and periplogenin, 519
— and —. Strophanthin. XV. Hispidus strophanthin, 531
Johnston, Charles G. A comparison of pH determinations as obtained by means of hydrogen electrode and colorimetric methods, 297
Jones, D. Breese, and Moeller, Otto. Some recent determinations of aspartic and glutamic acids in various proteins, 429
Jordan, C. N. See THAYER, JORDAN, and DOISY, 53

K

Kahlenberg, Louis, and Barwasser, Norbert. On the time of absorption and excretion of boric acid in man, 405
Kramer, Benjamin, and Shear, M. J. Composition of bone. II. Pathological calcification, 121
— and —. IV. Primary calcification, 147
—. See SHEAR and KRAMER, 105, 125, 161
Kramer, Martha M., Latzke, Esther, and Shaw, Mary Margaret. A comparison of raw, pasteurized, evaporated, and dried milks as sources of calcium and phosphorus for the human subject, 283
Krauss, W. E. See HUNT and KRAUSS, 733

L

La Forge, F. B., and Hudson, C. S. Note concerning the identity of volemitol and α-sedoheptitol, 1
Latzke, Esther. See KRAMER, LATZKE, and SHAW, 283
Leavenworth, Charles S. See VICKERY and LEAVENWORTH, 377
van Leersum, E. C. Vitamin A deficiency and calcification of the epithelium of the kidney, 461
Leiboff, S. L. A colorimetric method for the determination

of inorganic phosphate in blood serum, 611

Levene, P. A. The concentration of vitamin B. IV. On the concentration and the separation of the two components of vitamin B, 465

— and **Blanco, J. G.** Dihydroxyacetone and insulin hypoglycemia, 657

— and **Haller, H. L.** Configurational relationships of methylbutyl carbinol and of 2-hydroxycaproic acid to lactic acid. With a note on the relationship of chemical structure to optical activity, 475

— and **Meyer, G. M.** Monoacetone γ-methylglucoside, 357

— and **Steiger, Robert E.** The action of acetic anhydride and pyridine on amino acids, 95

— and **Walti, A.** Studies in polymerization and condensation. IV. Experiments on glycidol acetate, 363

— and **Wolfrom, M. L.** Acetyl monoses. V. The rates of hydrolysis of tetraacetylmethylmannosides and of triacetylmethyllyxosides, 471

—. See Raymond and Levene, 621

Lightbody, Howard D. See Huston, Lightbody, and Ball, 507

Likely, W. See Heller, Breedlove, and Likely, 275

Lohmann, Anne. See Stenström and Lohmann, 673

Luck, James Murray. The oxidation of dixanthydryl urea, a micro method for determining urea, 211

M

Maxwell, L. C. See Bischoff and Maxwell, 5

McIntosh, John F. See Hastings, Sendroy, McIntosh, and Van Slyke, 193

Meyer, G. M. See Levene and Meyer, 357

Michaelis, L., and **Flexner, Louis B.** Oxidation-reduction systems of biological significance. I. The reduction potential of cysteine: Its measurement and significance, 689

Moeller, Otto. See Jones and Moeller, 429

Morse, Fred W. The iodine content of Cape Cod cranberries, 409

N

Nord, F. F., and **Franke, Kurt W.** On the mechanism of enzyme action. II. Further evidence confirming the observations that ethylene increases the permeability of cells and acts as a protector, 27

P

Perlzweig, William A., and **Barron, E. S. Guzman.** Lactic acid and carbohydrate in sea urchin eggs under aerobic and anaerobic conditions, 19

Pertzoff, Vladimir. The behavior of casein in partial solution in calcium hydroxide, 799

Peterson, W. H. See SKINNER and PETERSON, 679

R

Ranson, S. W. See DAVENPORT, DAVENPORT, and RANSON, 499
Raymond, Albert L. Cozymase. Its relation to phosphatase activity, 637
— and **Blanco, J. G.** Blood sugar determination and separation of sugars with live yeast, 649
— and **Levene, P. A.** Hexose phosphates and alcoholic fermentation, 621
Robscheit-Robbins, Frieda S., Elden, C. A., Sperry, Warren M., and **Whipple, G. H.** Blood regeneration in severe anemia. XII. Potent influence of inorganic ash of apricots, liver, kidney, and pineapple, 563
—. See ELDEN, SPERRY, ROBSCHEIT-ROBBINS, and WHIPPLE, 577
Rose, William C. See WESTERMAN and ROSE, 413, 423

S

Sacks, Jacob, and **Davenport, H. A.** The inorganic phosphate content of resting mammalian muscle, 493
Sahyun, Melville, and **Blatherwick, N. R.** The physiological response of rabbits to insulin, 443
Sendroy, Julius, Jr. See HASTINGS, SENDROY, MCINTOSH, and VAN SLYKE, 193
Sendroy, Julius, Jr. See HASTINGS, SENDROY, and VAN SLYKE, 183
—. See VAN SLYKE, HASTINGS, HILLER, and SENDROY, 769
—. See VAN SLYKE and SENDROY, 781
Shaw, Mary Margaret. See KRAMER, LATZKE, and SHAW, 283
Shear, M. J., and **Kramer, Benjamin.** Composition of bone. I. Analytical micro methods, 105
— and —. III. Physicochemical mechanism, 125
— and —. V. Some properties of calcium citrate, 161
—. See KRAMER and SHEAR, 121, 147
Shohl, Alfred T., Bennett, Helen B., and **Weed, Katharine L.** Rickets in rats. VII. Metabolism of calcium and phosphorus of rats fed upon non-ricketogenic diets, 257
— and **Bing, Franklin C.** Rickets in rats. IX. pH of the feces, 269
Skinner, J. T., and **Peterson, W. H.** The iron and manganese content of feeding stuffs, 679
Sperry, Warren M. See ELDEN, SPERRY, ROBSCHEIT-ROBBINS, and WHIPPLE, 577
—. See ROBSCHEIT-ROBBINS, ELDEN, SPERRY, and WHIPPLE, 563
Steiger, Robert E. See LEVENE and STEIGER, 95
Stenström, Wilhelm, and **Lohmann, Anne.** Effect of Roentgen radiation on solutions of tyrosine and cystine, 673

XUM

Sumner, James S., and Holloway, Rachel G. Crystalline urease. III. Variations in jack bean meal as affecting the yield of crystals, 489

T

Thayer, Sidney, Jordan, C. N., and Doisy, Edward A. Improved procedure for the extraction of the ovarian hormone. II. Some corrections and additions, 53

Tongberg, C. O. See CONANT, ALLES, and TONGBERG, 89

V

Van Slyke, Donald D., Hastings, A. Baird, Hiller, Alma, and Sendroy, Julius, Jr. Studies of gas and electrolyte equilibria in blood. XIV. The amounts of alkali bound by serum albumin and globulin, 769

— and **Hawkins, James A.** A gasometric method for determination of reducing sugars, and its application to analysis of blood and urine, 739

— and **Sendroy, Julius, Jr.** Studies of gas and electrolyte equilibria in blood. XV. Line charts for graphic calculations by the Henderson-Hasselbalch equation, and for calculating plasma carbon dioxide content from whole blood content, 781

Van Slyke, Donald D. See HASTINGS SENDROY, MCINTOSH, and VAN SLYKE, 193

—. See HASTINGS, SENDROY, and VAN SLYKE, 183

Vickery, Hubert Bradford, and Leavenworth, Charles S. The basic amino acids of horse hemoglobin, 377

W

Walti, A. See LEVENE and WALTI, 363

Weed, Katharine L. See SHOHL, BENNETT, and WEED, 257

Westerman, Beulah D., and Rose, William C. The availability of disulfide acids as supplementing agents in diets deficient in cystine. II. α-Dihydroxy-β-dithiodipropionic acid, 413

— and —. The oxidation of disulfide acids in the animal organism, 423

Whipple, G. H. See ELDEN, SPERRY, ROBSCHEIT-ROBBINS, and WHIPPLE, 577

—. See ROBSCHEIT-ROBBINS, ELDEN, SPERRY, and WHIPPLE, 563

Wilson, D. Wright, and Ball, Eric G. A study of the estimation of chloride in blood and serum, 221

Wilson, Velma. See HENDRIX and WILSON, 389

Wolfrom, M. L. See LEVENE and WOLFROM, 471

INDEX TO SUBJECTS.

A

Absorption:
Boric acid, man, time (KAHLENBERG and BARWASSER) 405

Acetic anhydride:
Amino acids, action on (LEVENE and STEIGER) 95

Acetyl monoses:
V (LEVENE and WOLFROM) 471

Acid(s):
Fatty. *See* Fatty acid.
Inorganic. *See* Inorganic acid.

Albumin:
Blood serum, alkali bound by (VAN SLYKE, HASTINGS, HILLER, and SENDROY) 769
Egg, coagulated and uncoagulated, titration curves, comparison (HENDRIX and WILSON) 389
—, titration curves, coagulated and uncoagulated (HENDRIX and WILSON) 389

Alcohol:
Fermentation, and hexosephosphates (RAYMOND and LEVENE) 621

Amino acid(s):
Acetic anhydride action (LEVENE and STEIGER) 95

Amino acid(s)—*continued:*
Basic, hemoglobin, horse (VICKERY and LEAVENWORTH) 377
Hemoglobin, basic, horse (VICKERY and LEAVENWORTH) 377
Pyridine action (LEVENE and STEIGER) 95

Anemia:
Severe, blood regeneration. XII (ROBSCHEIT-ROBBINS, ELDEN, SPERRY, and WHIPPLE) 563
—, — —. XIII (ELDEN, SPERRY, ROBSCHEIT-ROBBINS, and WHIPPLE) 577

Apricot:
Ash, inorganic, severe anemia (ROBSCHEIT-ROBBINS, ELDEN, SPERRY, and WHIPPLE) 563

Ash:
Inorganic, apricot, severe anemia (ROBSCHEIT-ROBBINS, ELDEN, SPERRY, and WHIPPLE) 563
—, kidney, severe anemia (ROBSCHEIT-ROBBINS, ELDEN, SPERRY, and WHIPPLE) 563
—, liver, severe anemia (ROBSCHEIT-ROBBINS, ELDEN, SPERRY, and WHIPPLE) 563

XUM

Ash—*continued:*
Inorganic, pineapple, severe anemia (ROBSCHEIT-ROBBINS, ELDEN, SPERRY, and WHIPPLE) 563
Aspartic acid:
Proteins, determinations (JONES and MOELLER) 429

B

Base:
Albumin, blood serum, bound by (VAN SLYKE, HASTINGS, HILLER, and SENDROY) 769
Blood serum albumin, bound by (VAN SLYKE, HASTINGS, HILLER, and SENDROY) 769
— — globulin, bound by (VAN SLYKE, HASTINGS, HILLER, and SENDROY) 769
Globulin, blood serum, bound by (VAN SLYKE, HASTINGS, HILLER, and SENDROY) 769
Bergeim:
Coefficient of utilization, comparison with standard methods (HELLER, BREEDLOVE, and LIKELY) 275
Bicarbonate:
Blood, distribution, normal and pathological (HASTINGS, SENDROY, MCINTOSH, and VAN SLYKE) 193
Blood:
Anemia, severe, regeneration. XII (ROBSCHEIT-ROBBINS, ELDEN, SPERRY, and WHIPPLE) 563
Blood—*continued:*
Anemia, severe, regeneration. XIII (ELDEN, SPERRY, ROBSCHEIT-ROBBINS, and WHIPPLE) 577
Bicarbonate distribution, normal and pathological (HASTINGS, SENDROY, MCINTOSH, and VAN SLYKE) 193
Calcium precipitation by lead (BISCHOFF and MAXWELL) 5
Chloride determination (WILSON and BALL) 221
— distribution, normal and pathological (HASTINGS, SENDROY, MCINTOSH, and VAN SLYKE) 193
Electrolyte and gas equilibria. XII (HASTINGS, SENDROY, and VAN SLYKE) 183
— — — —. XIII (HASTINGS, SENDROY, MCINTOSH, and VAN SLYKE) 193
— — — —. XIV (VAN SLYKE, HASTINGS, HILLER, and SENDROY) 769
— — — —. XV (VAN SLYKE and SENDROY) 781
Gas and electrolyte equilibria. XII (HASTINGS, SENDROY, and VAN SLYKE) 183
— — — —. XIII (HASTINGS, SENDROY, MCINTOSH, and VAN SLYKE) 193

Blood—*continued:*
Gas and electrolyte equilibria. XIV (Van Slyke, Hastings, Hiller, and Sendroy) 769
—————. XV (Van Slyke and Sendroy) 781
Regeneration, severe anemia. XII (Robscheit-Robbins, Elden, Sperry, and Whipple) 563
—, ——. XIII (Elden, Sperry, Robscheit-Robbins, and Whipple) 577
Sugar determination (Raymond and Blanco) 649
Sugars, reducing, gasometric determination (Van Slyke and Hawkins) 739

Blood cell:
Metabolism. II (Barron and Harrop) 65
Red. *See* Erythrocyte.

Blood corpuscle:
See Blood cell.

Blood plasma:
Carbon dioxide calculated from whole blood content, line charts (Van Slyke and Sendroy) 781

Blood serum:
Albumin, alkali bound by (Van Slyke, Hastings, Hiller, and Sendroy) 769
Chloride determination (Wilson and Ball) 221

Blood serum—*continued:*
Globulin, alkali bound by (Van Slyke, Hastings, Hiller, and Sendroy) 769
Inorganic phosphate, colorimetric determination (Leiboff) 611
Phosphate, inorganic colorimetric determination (Leiboff) 611
pK′ value, Henderson-Hasselbalch equation (Hastings, Sendroy, and Van Slyke) 183
Protein solutions, calcium electrical transference (Greenberg) 177

Bone:
Calcification, pathological (Kramer and Shear) 121
—, primary (Kramer and Shear) 147
Composition. I (Shear and Kramer) 105
—. II (Kramer and Shear) 121
—. III (Shear and Kramer 125
—. IV (Kramer and Shear) 147
—. V (Shear and Kramer) 161
—, physicochemical mechanism (Shear and Kramer) 125
Micro analysis (Shear and Kramer) 105

Boric acid:
Absorption, man, time (Kahlenberg and Barwasser) 405
Excretion, man, time (Kahlenberg and Barwasser) 405

XUM

C

Calcification:
Bone, pathological (KRAMER and SHEAR) 121
—, primary (KRAMER and SHEAR) 147
Kidney epithelium and vitamin A deficiency (VAN LEERSUM) 461
Calcium:
Blood, lead precipitation (BISCHOFF and MAXWELL) 5
— serum protein solutions, electrical transference (GREENBERG) 177
Electrical transference, blood serum protein solutions (GREENBERG) 177
Metabolism, non-rachitogenic diet (SHOHL, BENNETT, and WEED) 257
Milk as source (KRAMER, LATZKE, and SHAW) 283
Calcium citrate:
Properties (SHEAR and KRAMER) 161
Calcium hydroxide:
Casein behavior in partial solution (PERTZOFF) 799
Carbinol:
Methylbutyl, lactic acid, configurational relationship (LEVENE and HALLER) 475
Carbohydrate:
Formation, new (CORI and CORI) 309
Lactic acid and, sea urchin eggs (PERLZWEIG and BARRON) 19
Carbohydrate—*continued:*
Metabolism, epinephrine effect, fasting rats (CORI and CORI) 309
—, — — on rats in postabsorptive state (CORI and CORI) 321
—, insulin effect on rats in postabsorptive state (CORI and CORI) 321
Sea urchin eggs, lactic acid and, in (PERLZWEIG and BARRON) 19
Carbon dioxide:
Blood plasma calculated from whole blood content, line charts (VAN SLYKE and SENDROY) 781
Casein:
Calcium hydroxide, partial solution, behavior (PERTZOFF) 799
Cell:
Ethylene protection (NORD and FRANKE) 27
Permeability, ethylene action (NORD and FRANKE) 27
Chemical structure:
Optical activity, relationship (LEVENE and HALLER) 475
Chloride:
Blood, determination (WILSON and BALL) 221
—, distribution, normal and pathological (HASTINGS, SENDROY, MCINTOSH, and VAN SLYKE) 193
— serum, determination (WILSON and BALL) 221

Colorimetric method:
Hydrogen ion concentration determination by, and hydrogen electrode, comparison (JOHNSTON) 297
Phosphate, inorganic, blood serum (LEIBOFF) 611

Condensation:
Polymerization and. IV (LEVENE and WALTI) 363

Copper salt(s):
Hemoglobin output, effect (ELDEN, SPERRY, ROBSCHEIT-ROBBINS, and WHIPPLE) 577

Cozymase:
Phosphatase activity, relation (RAYMOND) 637

Cranberries:
Iodine content (MORSE) 409

Cysteine:
Reduction potential, measurement and significance (MICHAELIS and FLEXNER) 689

Cystine:
Diet deficient in, disulfide acids, supplement. II (WESTERMAN and ROSE) 413
Roentgen radiation effect (STENSTRÖM and LOHMANN) 673

D

Diet:
Cystine-deficient, disulfide acids, supplement. II (WESTERMAN and ROSE) 413

Diet—*continued:*
Disulfide acids, supplement, cystine-deficient. II (WESTERMAN and ROSE) 413
Non-rachitogenic, calcium metabolism (SHOHL, BENNETT, and WEED) 257
—, phosphorus metabolism (SHOHL, BENNETT, and WEED) 257

Digitalis:
Glucosides. II (JACOBS and GUSTUS) 533

Dihydroxyacetone:
Hypoglycemia, insulin, and (LEVENE and BLANCO) 657
Insulin hypoglycemia, and (LEVENE and BLANCO) 657

α-Dihydroxy-β-dithiodipropionic acid:
Cystine-deficient diet, supplement (WESTERMAN and ROSE) 413

Dissociation constant:
Apparent, Henderson-Hasselbalch, blood serum value (HASTINGS, SENDROY, and VAN SLYKE) 183

Disulfide:
Acids, cystine-deficient diet, supplement. II (WESTERMAN and ROSE) 413
—, oxidation in animal organism (WESTERMAN and ROSE) 423

Dixanthydryl urea:
Oxidation (LUCK) 211

XUM

Dye:
Erythrocyte, glycolysis, methylene blue and other dyes, effect (BARRON and HARROP) 65
—, lactic acid formation, methylene blue and other dyes, effect (BARRON and HARROP) 65
Glycolysis, erythrocyte, effect of methylene blue and other dyes (BARRON and HARROP) 65
Lactic acid formation, erythrocyte, effect of methylene blue and other dyes (BARRON and HARROP) 65

E

Egg:
Albumin, coagulated and uncoagulated, titration curves, comparison (HENDRIX and WILSON) 389
—, titration curves, coagulated and uncoagulated, comparison (HENDRIX and WILSON) 389

Electrical transference:
Calcium, blood serum protein solutions (GREENBERG) 177

Electrode:
Hydrogen, hydrogen ion concentration determination by, and colorimetric method, comparison (JOHNSTON) 297

Electrolyte:
Equilibrium, gas and, in blood. XII (HASTINGS, SENDROY, and VAN SLYKE) 183

Electrolyte—*continued:*
Equilibrium, gas and, in blood. XIII (HASTINGS, SENDROY, MCINTOSH, and VAN SLYKE) 193
—, — —, — blood. XIV (VAN SLYKE, HASTINGS, HILLER, and SENDROY) 769
—, — —, — blood. XV (VAN SLYKE and SENDROY) 781

Electrometric:
Titration, hematin (CONANT, ALLES, and TONGBERG) 89
—, hemin (CONANT, ALLES, and TONGBERG) 89

Enzyme:
Action, mechanism. II (NORD and FRANKE) 27

Epinephrine:
Action, mechanism. I (CORI and CORI) 309
—, —. II (CORI and CORI) 321
—, —. III (CORI and CORI) 343
Carbohydrate metabolism, fasting rats, effect (CORI and CORI) 309
— —, rats in postabsorptive state (CORI and CORI) 321
Glucose, absorbed, utilization, effect (CORI and CORI) 343

Epithelium:
Kidney, calcification, and vitamin A deficiency (VAN LEERSUM) 461

Equilibrium:
Electrolyte and gas, in blood. XII (HASTINGS, SENDROY, and VAN SLYKE) 183
— — —, — blood. XIII (HASTINGS, SENDROY, MCINTOSH, and VAN SLYKE) 193
— — —, — blood. XIV (VAN SLYKE, HASTINGS, HILLER, and SENDROY) 769
— — —, — blood. XV (VAN SLYKE and SENDROY) 781
Gas and electrolyte, in blood. XII (HASTINGS, SENDROY, and VAN SLYKE) 183
— — —, — blood. XIII (HASTINGS, SENDROY, MCINTOSH, and VAN SLYKE) 193
— — —, — blood. XIV (VAN SLYKE, HASTINGS, HILLER, and SENDROY) 769
— — —, — blood. XV (VAN SLYKE and SENDROY) 781
Erythrocyte:
Avian, dye effect on glycolysis (BARRON and HARROP) 65
—, — — — — lactic acid formation (BARRON and HARROP) 65
—, methylene blue effect on glycolysis (BARRON and HARROP) 65
—, — — — — on lactic acid formation (BARRON and HARROP) 65
Dye effect on glycolysis, (BARRON and HARROP) 65
Erythrocyte—*continued:*
Dye effect on lactic acid formation (BARRON and HARROP) 65
Glycolysis, methylene blue and other dyes effect (BARRON and HARROP) 65
Lactic acid formation, methylene blue and other dyes effect (BARRON and HARROP) 65
Methylene blue effect on glycolysis (BARRON and HARROP) 65
— — — — — lactic acid formation (BARRON and HARROP) 65
Ethylene:
Cell permeability, action (NORD and FRANKE) 27
— protector (NORD and FRANKE) 27
Excretion:
Boric acid, man, time (KAHLENBERG and BARWASSER) 405

F

Fatty acid(s):
Saturated, hemolytic action (BODANSKY) 241
—, lipoid solubility (BODANSKY) 241
—, permeability (BODANSKY) 241
Feces:
Hydrogen ion concentration, rickets (SHOHL and BING) 269
Feed:
Iron content (SKINNER and PETERSON) 679

Feed—*continued:*
Manganese content (SKINNER and PETERSON) 679
Fermentation:
Alcohol, and hexosephosphates (RAYMOND and LEVENE) 621

G

Galactose:
Metabolism (BLANCO) 667
Gas:
Equilibrium, electrolyte and, in blood. XII (HASTINGS, SENDROY, and VAN SLYKE) 183
—, — —, — blood. XIII (HASTINGS, SENDROY, MCINTOSH, and VAN SLYKE) 193
—, — —, — blood. XIV (VAN SLYKE, HASTINGS, HILLER, and SENDROY) 769
—, — —, — blood. XV (VAN SLYKE and SENDROY) 781
Gasometric determination:
Sugars, reducing (VAN SLYKE and HAWKINS) 739
Gitoxigenin:
(JACOBS and GUSTUS) 553
Isogitoxigenin (JACOBS and GUSTUS) 553
Globulin:
Blood serum, alkali bound by (VAN SLYKE, HASTINGS, HILLER, and SENDROY) 769
Glucose:
Epinephrine effect on utilization of absorbed (CORI and CORI) 343
Glucoside:
Digitalis. II (JACOBS and GUSTUS) 553
Monoacetone γ-methyl- (LEVENE and MEYER) 357
Glutamic acid:
Proteins, determinations (JONES and MOELLER) 429
Glycidol acetate:
(LEVENE and WALTI) 363
Glycolysis:
Erythrocyte, dye, effect (BARRON and HARROP) 65
—, methylene blue effect (BARRON and HARROP) 65

H

Hematin:
Electrometric titration (CONANT, ALLES, and TONGBERG) 89
Hemin:
Electrometric titration (CONANT, ALLES, and TONGBERG) 89
Hemoglobin:
Amino acids, basic, horse (VICKERY and LEAVENWORTH) 377
Copper salts effect on output (ELDEN, SPERRY, ROBSCHEIT-ROBBINS, and WHIPPLE) 577
Hemolysis:
Fatty acids, saturated (BODANSKY) 241
Inorganic acids (BODANSKY) 229
Henderson-Hasselbalch:
Equation, line charts (VAN SLYKE and SENDROY) 781

Henderson-Hasselbalch — *continued:*
pK′, blood serum, value (HASTINGS, SENDROY, and VAN SLYKE) 183
Hexosephosphate:
Alcoholic fermentation, and (RAYMOND and LEVENE) 621
Hispidus:
Strophanthin (JACOBS and HOFFMANN) 531
Hormone:
Ovarian, extraction. II (THAYER, JORDAN, and DOISY) 53
Hydrogen:
Electrode, hydrogen ion concentration determination by, and colorimetric method, comparison (JOHNSTON) 297
Hydrogen ion:
Concentration, colorimetric and hydrogen electrode determinations, comparison (JOHNSTON) 297
—, determination by hydrogen electrode and colorimetric methods, comparison (JOHNSTON) 297
—, feces, rickets (SHOHL and BING) 269
—, hydrogen electrode and colorimetric determinations, comparison (JOHNSTON) 297
Hydroquinone:
Vitamin A content of stored oils, effect (HUSTON, LIGHTBODY, and BALL) 507
2-Hydroxycaproic acid:
Lactic acid, configurational relationship (LEVENE and HALLER) 475
Hypoglycemia:
Dihydroxyacetone, and insulin (LEVENE and BLANCO) 657
Insulin, and dihydroxyacetone (LEVENE and BLANCO) 657

I

Inorganic acid(s):
Hemolytic action (BODANSKY) 229
Insulin:
Carbohydrate metabolism, rats in postabsorptive state (CORI and CORI) 321
Hypoglycemia, and dihydroxyacetone (LEVENE and BLANCO) 657
Physiological response, rabbit (SAHYUN and BLATHERWICK) 443
Iodine:
Cranberries (MORSE) 409
Iron:
Feedingstuff content (SKINNER and PETERSON) 679
Isogitoxigenin:
(JACOBS and GUSTUS) 553
Isostrophanthidin:
Degradation, series (JACOBS and GUSTUS) 539

J

Jack bean:
Urease, crystalline, variations in meal, effect (SUMNER and HOLLOWAY) 489

XUM

K

Kidney:
Ash, inorganic, severe anemia (Robscheit-Robbins, Elden, Sperry, and Whipple) 563
Epithelium, calcification, and vitamin A deficiency (van Leersum) 461

L

Lactic acid:
Carbohydrate and, sea urchin eggs (Perlzweig and Barron) 19
Erythrocyte, methylene blue and other dyes effect on formation (Barron and Harrop) 65
Formation, erythrocyte, methylene blue and other dyes effect (Barron and Harrop) 65
2-Hydroxycaproic acid, configurational relationship (Levene and Haller) 475
Methylbutyl carbinol, configurational relationship (Levene and Haller) 475
Muscle, contracted, content (Davenport, Davenport, and Ranson) 499
Sea urchin eggs, carbohydrate and, in (Perlzweig and Barron) 19

Lactose:
Metabolism (Blanco) 667

Lead:
Blood, calcium, precipitation by (Bischoff and Maxwell) 5
Calcium, blood, precipitation by (Bischoff and Maxwell) 5

Line chart:
Carbon dioxide, blood plasma, calculated from whole blood content (Van Slyke and Sendroy) 781
Henderson-Hasselbalch equation (Van Slyke and Sendroy) 781

Lipoid:
Solubility, saturated fatty acids (Bodansky) 241

Liver:
Ash, inorganic, severe anemia (Robscheit-Robbins, Elden, Sperry, and Whipple) 563

Lyxoside:
Triacetylmethyl-, hydrolysis rate (Levene and Wolfrom) 471

M

Manganese:
Feedingstuff content (Skinner and Peterson) 679

Mannoside:
Tetraacetylmethyl-, hydrolysis rate (Levene and Wolfrom) 471

Metabolism:
Blood cell. II (Barron and Harrop) 65
Calcium, non-rachitogenic diet (Shohl, Bennett, and Weed) 257

Metabolism—*continued:*
Carbohydrate, epinephrine effect, fasting rats (CORI and CORI) 309
—, — — on rats in post-absorptive state (CORI and CORI) 321
—, insulin effect on rats in postabsorptive state (CORI and CORI) 321
Galactose (BLANCO) 667
Lactose (BLANCO) 667
Phosphorus, non-rachitogenic diet (SHOHL, BENNETT, and WEED) 257
Sugar (BLANCO) 667
Xylose (BLANCO) 667
Methylbutyl carbinol:
Lactic acid, configurational relationship (LEVENE and HALLER) 475
Methylene blue:
Erythrocyte, glycolysis, effect (BARRON and HARROP) 65
—, lactic acid formation, effect (BARRON and HARROP) 65
Glycolysis, erythrocyte, effect (BARRON and HARROP) 65
Lactic acid formation, erythrocyte, effect (BARRON and HARROP) 65
γ-Methylglucoside:
Monoacetone (LEVENE and MEYER) 357
Milk:
Antineuritic potency, cow (HUNT and KRAUSS) 733
Antipellagric potency, cow (HUNT and KRAUSS) 733
Milk—*continued:*
Calcium source (KRAMER, LATZKE, and SHAW) 283
Phosphorus source (KRAMER, LATZKE, and SHAW) 283
Monoacetone γ-methylglucoside:
(LEVENE and MEYER) 357
Monoses:
Acetyl. V (LEVENE and WOLFROM) 471
Muscle:
Contracted, lactic acid content (DAVENPORT, DAVENPORT, and RANSON) 499
Contracture, chemical studies. I (DAVENPORT, DAVENPORT, and RANSON) 499
Inorganic phosphate content, resting mammalian (SACKS and DAVENPORT) 493
Lactic acid content, contracted (DAVENPORT, DAVENPORT, and RANSON) 499
Phosphate, inorganic, content, resting mammalian (SACKS and DAVENPORT) 493

O

Oil:
Cod liver. *See* Cod liver oil.
Vitamin A content, hydroquinone effect (HUSTON, LIGHTBODY, and BALL) 507
Optical activity:
Chemical structure, relationship (LEVENE and HALLER) 475

XUM

Ovary:
Hormone, extraction. II (THAYER, JORDAN, and DOISY) 53
Oxidation-reduction:
Systems, biological significance. I (MICHAELIS and FLEXNER) 689

P

Pellagra:
Milk, cow, antipellagric potency (HUNT and KRAUSS) 733
Periplocymarin:
(JACOBS and HOFFMANN) 519
Periplogenin:
(JACOBS and HOFFMANN) 519
Permeability:
Cell, ethylene effect (NORD and FRANKE) 27
Fatty acids, saturated (BODANSKY) 241
Phenol(s):
Biochemical relations. II (HUSTON, LIGHTBODY, and BALL) 507
Phosphatase:
Cozymase, relation (RAYMOND) 637
Phosphate:
Colorimetric determination, inorganic, blood serum (LEIBOFF) 611
Hexose, and alcoholic fermentation (RAYMOND and LEVENE) 621
Inorganic, colorimetric determination, blood serum (LEIBOFF) 611
—, muscle, resting mammalian, content (SACKS and DAVENPORT) 493
Phosphorus:
Metabolism, non-rachitogenic diet (SHOHL, BENNETT, and WEED) 257
Milk as source (KRAMER, LATZKE, and SHAW) 283
Pineapple:
Ash, inorganic, severe anemia (ROBSCHEIT-ROBBINS, ELDEN, SPERRY, and WHIPPLE) 563
Polymerization:
Condensation and. IV (LEVENE and WALTI) 363
Polyneuritis:
Milk, cow, antineuritic potency (HUNT and KRAUSS) 733
Potential:
Reduction, cysteine (MICHAELIS and FLEXNER) 689
Protein(s):
Aspartic acid, determinations (JONES and MOELLER) 429
Blood serum solutions, calcium electrical transference (GREENBERG) 177
Glutamic acid, determinations (JONES and MOELLER) 429
Tyrosine content, determination (HANKE) 587
Pyridine:
Amino acids, action on (LEVENE and STEIGER) 95

R

Reduction:
Potential, cysteine (MICHAELIS and FLEXNER) 689
Rickets:
VII (SHOHL, BENNETT, and WEED) 257
IX (SHOHL and BING) 269
Roentgen:
Radiation, cystine solution, effect (STENSTRÖM and LOHMANN) 673
—, tyrosine solution, effect (STENSTRÖM and LOHMANN) 673

S

Sea urchin:
Carbohydrate in eggs (PERLZWEIG and BARRON) 19
Lactic acid in eggs (PERLZWEIG and BARRON) 19
α-Sedoheptitol:
Volemitol, identity (LA FORGE and HUDSON) 1
Strophanthidin:
Isostrophanthidin series, degradation (JACOBS and GUSTUS) 539
Strophanthin:
XV (JACOBS and HOFFMANN) 531
XVI (JACOBS and GUSTUS) 539
Hispidus (JACOBS and HOFFMANN) 531
Sugar(s):
Blood, determination (RAYMOND and BLANCO) 649
Sugar(s)—*continued:*
Determination, blood (RAYMOND and BLANCO) 649
Gasometric determination, reducing (VAN SLYKE and HAWKINS) 739
Metabolism (BLANCO) 667
Reducing, gasometric determination (VAN SLYKE and HAWKINS) 739
Separation, live yeast (RAYMOND and BLANCO) 649

T

Tetraacetylmethyl mannoside:
Hydrolysis rate (LEVENE and WOLFROM) 471
Titration curves:
Egg albumin, coagulated and uncoagulated, comparison (HENDRIX and WILSON) 389
Triacetylmethyllyxoside:
Hydrolysis rate (LEVENE and WOLFROM) 471
Tyrosine:
Determination, proteins (HANKE) 587
Proteins, determination (HANKE) 587
Roentgen radiation effect (STENSTRÖM and LOHMANN) 673

U

Urea:
Determination, micro (LUCK) 211
Dixanthydryl urea oxidation (LUCK) 211

XUM

Urease:
Crystalline. III (SUMNER and HOLLOWAY) 489
Urine:
Sugars, reducing, gasometric determination (VAN SLYKE and HAWKINS) 739
Utilization coefficient:
Bergeim and standard methods, comparison (HELLER, BREEDLOVE, and LIKELY) 275

V

Vitamin(s):
A deficiency and calcification of kidney epithelium (VAN LEERSUM) 461
—, hydroquinone effect, stored oils (HUSTON, LIGHTBODY, and BALL) 507
—, oils, stored, hydroquinone effect (HUSTON, LIGHTBODY, and BALL) 507
Vitamin(s)—*continued:*
B, components, concentration (LEVENE) 465
—, —, separation (LEVENE) 465
—, concentration. IV (LEVENE) 465
—, nature, complex. I (HUNT) 723
—, —, third factor (HUNT) 723
Volemitol:
α-Sedoheptitol, identity (LA FORGE and HUDSON) 1

X

Xylose:
Metabolism (BLANCO) 667

Y

Yeast:
Sugar separation (RAYMOND and BLANCO) 649

ST. LOUIS PUBLIC LIBRARY
OCT 16 1929

XUM